

ABSTRACT

The projector 1 comprises A projector includes a light source device 411, source, a color separating optical system 42, system, liquid crystal panels 441, 441R, 441G and 441B, panels, a cross dichroic prism 444, prism, and a projection lens 46, lens, in which an optical filter 500 filter is disposed for reflecting to reflect a predetermined spectral component in the light flux between a dichroic mirror 421 mirror and a dichroic mirror 422 mirror where an angle by which the light flux expands falls within 20° with respect to an illumination optical axis L of the light flux on an optical path from the light source device 411 device to a light flux-emitting surface of the projecting lens 46 lens. Thus, carrying out spectrum correction can reduce or prevent the contrast degradation of the projected image. Furthermore, it allows the difference of an incident angle to the light flux-incident surface of the light flux to be smaller, thereby reducing color unevenness.